

RIVERS AND FLOODS, NOVEMBER, 1913.

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Owing to heavy snows of from 1 to 3 feet in the mountains, light, warm rains on the 13th and 14th caused very rapid rises in the rivers of western Pennsylvania and West Virginia. The Monongahela River at Fairmont, W. Va., crested at 29.5 feet, 4.5 feet above flood stage, on the 16th; at Greensboro, Pa., 31.2 feet, 11.2 feet above flood stage, on the 16th; and at Lock No. 4, Pa., 36.6 feet, 8.6 feet above flood stage, on the 17th. In the other rivers the crest stages were somewhat below or slightly above the flood stage.

In the Ohio River flood stages were reached only at Pittsburgh, Pa., Parkersburg, W. Va., and Point Pleasant, Ohio, where crest stages were 22.2 feet on the 17th, flood stage 22 feet; 36.5 feet on the 17th, flood stage 36 feet; and 42.7 feet on the 18th, flood stage 40 feet, respectively.

Heavy rains on the 8th and 9th caused very moderate floods in the Cape Fear, Roanoke, and Staunton Rivers in North Carolina, and in the Pedee, Wateree, and Santee Rivers of South Carolina.

Heavy rains during the last week of the month caused sharp rises in the rivers of Texas. The following crest stages above the flood plain were reached: At Columbus on the Colorado River, 34 feet, 10 feet above flood stage, on the 30th; at Dallas on the Trinity River, 30.2 feet, 5.2 feet above flood stage, on the 25th; and at Victoria on the Guadalupe River, 22.9 feet, 4.9 feet above flood stage, on the 28th. Further account of the Texas floods will appear in a later issue.

Losses due to November, 1913, floods.

State.	River system.	Item 1, general loss, bridges, etc.	Item 2.		Item 3, sus- pen- sion of bus- ness.
			Crops.	Live stock.	
Pennsylvania.....	Monongahela....	\$30,000	\$3,000
South Carolina.....	Wateree, Santee	900

Hydrographs for typical points on several principal rivers are shown on Chart I. The stations selected for charting are Keokuk, St. Louis, Memphis, Vicksburg, and New Orleans, on the Mississippi; Cincinnati and Cairo, on the Ohio; Nashville, on the Cumberland; Johnsonville, on the Tennessee; Kansas City, on the Missouri; Little Rock, on the Arkansas; and Shreveport, on the Red.

RECENT ADDITIONS TO THE WEATHER BUREAU LIBRARY.

C. FITZHUGH TALMAN, Junior Professor in Charge of Library.

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies:

Aachen. Meteorologisches Observatorium.

Deutsches meteorologisches Jahrbuch für 1911. Aachen. Jahrgang 17. Karlsruhe. 1913. 30 p. f°.

Austria-Hungary. Hydrographisches Amt der k. k. Kriegsmarine in Pola.

Ergebnisse der meteorologischen Beobachtungen in Pola für das Lustrum 1906-1910. Pola. 1913. 32 p. f°. (Veröffentlichungen. Nr. 33.)

Jahrbuch der meteorologischen, erdmagnetischen und seismischen Beobachtungen. Neue Folge. 17. Band. 1912. Pola. 1913. xxii, 178 p. f°. (Veröffentlichungen. Nr. 34.)

Austria-Hungary. K. k. Hydrographisches Zentralbureau.

Die Niederschläge in den österreichischen Flusgsgebieten. Lieferung I. Das Donau- und das Marchgebiet. Wien. 1913. vii, 220 p. f°. (Beiträge zur Hydrographie Oesterreichs. 10. Heft. 1. Lieferung.) [Beilage: Isohyetenkarte für die Periode 1876 bis 1900.]

Austria-Hungary. I. r. Osservatorio marittimo di Trieste.

Rapporto annuale, contenente le osservazioni meteorologiche di Trieste e di alcune altre stazioni Adriatiche per l'anno 1909. 26 volume. Trieste. 1913. 123 p. f°.

Bachr, Alfred.

Zur Landeskunde der Maskarenen. Wien. 1913. 77 p. 4°. (K. k. Geographische Gesellschaft in Wien. 10. Band. Nr. 2.)

Bologna. R. Università. Osservatorio.

Osservazioni meteorologiche dell'annata 1912. Bologna. 1913. 31 p. f°. (Estratto d. ser. 6, t. 10, 1912-13, delle Memorie d. R. Accad. sci. dell' Istituto di Bologna, Classe di sci. fisiche.)

Bouches-du-Rhône. Commission de météorologie.

Bulletin annuel. Année 1912. 31^{me} année. Marseille. 1913. xi, 74, xxxiv p. 4°.

Denmark. Danske meteorologiske institut.

Meteorologisk aarbog for 1910. Anden del: Færøerne, Island, Grönland og St. Croix. Kjøbenhavn. 1913. [iii], 111 p. f°.

Meteorologisk aarbog for 1912. Første del: Kongeriget. Kjøbenhavn. 1913. [iv], 147 p. f°.

Egypt. Survey department.

Meteorological report for the year 1910. Part 1. Helwan observatory. Cairo. 1913. v. p. 9 plates. f°.

The rains of the Nile basin and the Nile flood of 1911. Cairo. 1913. [4] p. l., 110 p. 8 plates. 4°. (Survey department paper, no. 27.)

Ficker, H[einrich] von.

Die Erforschung der Föhnerscheinungen in den Alpen. Eine meteorologische Studie. München. 1912. 53-77 p. 4°. (Sonderabdruck aus der Zeitschrift des deutschen u. österreichischen Alpenvereins 1912, 43. Band.)

[Flach, Wilhelm], & others.

Ny instruktion för de med statsmedel upprättade stormvarningsstationerna, efter samråd med föreständare för Statens meteorologiska centralanstalt utfärdat av Kungl. lanbruksstyrelsen den 11 November 1913. Stockholm. 1913. 10 p. 8°.

Hesselberg, Th.

Die Luftbewegung im Cirrusniveau. Leipzig. 1913. 17-73 p. 8°. (Geophysikalisches Institut der Universität Leipzig. Veröffentlichungen. 2. Ser. Heft 2.)

Innsbruck. Universität. Meteorologisches Observatorium.

Beobachtungen im Jahre 1911. Innsbruck. 1913. [43] p. 8°.

Japan. Central meteorological observatory.

Results of the meteorological observations in Japan for the lustrum 1906-1910. [Japanese and English text.] Tokio. 1913. 345 p. 4°.

Kielbel, Aurel.

Die Temperatur von Mies. Ein Beitrag zur Kennzeichnung des Klimas der Stadt. 1. Teil. Mies. [1913.] 12 p. 8°. (Sonderabdruck aus dem 43. Jahreeberichte des K. k. Staats-Ober-Gymnasiums in Mies.)

Modena. R. Osservatorio geofisico.

Osservazioni meteorologiche dell' anno 1910. Notizie sull' osservatorio pel periodo 1908-1912. Modena. 1913. 68 p. f°. (Pubblicazioni no. 27.)

Naturforschender Verein in Brünn. Meteorologische Commission.

27. Bericht. Ergebnisse der meteorologischen Beobachtungen im Jahre 1907. Brünn. 1912. 3 p. l., 151 p. 5 maps. 8°.